

User's Guide

Bedienungsanleitung

Guide de l'utilisateur

Guida utente

Manual de Instrucciones

Användarhandbok

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## FEDERAL COMMUNICATIONS COMMISSION (FCC)

## Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued FCC emission limit compliance, the user must use only the power supply cord and shielded interface cable provided when connecting to a host computer. Also, any unauthorized changes or modifications to this equipment may void the user's authority to operate the equipment.

## DEPARTMENT OF INDUSTRY CANADA (IC)

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



CE certificate

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility".

Die in diesem Gerät erzeugten Röntgenstrahlen sind durch die eigensichere Kathodenstrahlröhre ausreichend abgeschirmt. Nach Anlage III der Röntgenverordnung. Maximale Beschleunigungsspannung 28kV



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# POWER CORD SAFETY GUIDELINES

Caution : Use a power cable that is properly grounded. Always use the AC cords listed below for each area:

USA..... UL  
 Canada..... CSA  
 Germany..... VDE  
 Switzerland..... SEV  
 Britain..... BASEC/BS  
 Japan..... Electric Appliance Control Act

In other areas, use AC cord which meets local safety standards.

## AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET THEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO AN APPROPRIATE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow: Earth  
 Blue: Neutral  
 Brown: Live

If the coloured wires of the mains lead of this appliance do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol  $\perp$  or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

## IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord for this unit has been packed separately and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set.

The female receptacle of the cord set must meet CEE-22 requirements and will look like Figure 1 below:

Figure 1



For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure 2) UL Listed and CSA Labelled. For units which are mounted on a desk or table, type SVT or SJT cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult Table A below for the selection criteria for power cords used in the United States and Canada.

Figure 2



For European Countries

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and a special mark that will appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning which proper power cord to use, please consult with the dealer from whom you purchased your monitor.

Table A

| Cord Type | Size of Conductors In Cord | Maximum Current Rating of Unit |
|-----------|----------------------------|--------------------------------|
| SJT       | 18AWG                      | 10Amps                         |
|           | 16AWG                      | 12Amps                         |
|           | 14AWG                      | 12Amps                         |
| SVT       | 18AWG                      | 10Amps                         |
|           | 17AWG                      | 12Amps                         |

## ATTENTION : FOR YOUR SAFETY



Immediately turn the power OFF should any indication of trouble occur - if smoke, smells or strange noises are being emitted from the monitor.

Never remove the rear cover - there are lethal high voltage parts inside the monitor.

Only qualified technicians should access the interior of the monitor.

Do not allow anything to get inside the monitor - if fluids or other foreign objects enter the case accidentally, immediately turn the power OFF, unplug the power cord from the outlet and contact your dealer. Continuing to use the monitor may cause a fire, electrical shock or breakdown of the unit.

### PRECAUTIONS IN INSTALLATION

- The power cord appliance coupler is considered the main disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Ensure adequate ventilation. Keep the ventilation holes in the cabinet unobstructed - do not place objects on or around the monitor, do not install it in a bookcase or cabinet, install it at least 10cm from a wall.
- Shield the unit and its power cord from direct sunlight or heating appliances
- Do not install the monitor in damp or dusty locations. Kitchens, factory work floors and so forth are places to be avoided.
- Route the power cord and I/O cable so that they will not be walked over or become entangled with moving objects
- Do not overload electrical outlets

### PRECAUTIONS IN USE

- Never use the monitor if the power cord is damaged in any way. Do not place heavy or sharp objects on the cord. Protect the power cord from abrasion and solvents.
- Magnetic fields generated from speakers, motors, transformers and other sources can distort the color or tear the image on the screen. Ensure no such sources are in the monitor's vicinity.
- Other display units or televisions used in near proximity to this monitor can result in both interfering with each other's reception. Keep all units as far apart as possible
- Be careful to avoid bumping, dropping or any physical shock, particularly while moving the monitor.

### CARE OF THE UNIT

Use a clean, dry, cloth to clean the unit. If the monitor becomes dirty, use a well rung out cloth soaked in a neutral detergent to gently wipe it clean. Polishers, abrasive cleansers, chemical cloths are all to be avoided. Do not attempt to scratch off any foreign material - especially on the screen surface.

## TROUBLESHOOTING

| Problem                                                               | Check                                                                                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| No Picture                                                            | The power cord is correctly connected<br>The power switch is ON<br>The signal cable is correctly connected<br>The VGA card is properly seated in its slot |
| LED on the monitor is not lit                                         | The power switch is ON                                                                                                                                    |
| Display image is too large, too small, not centered or distorted      | If the image needs adjusting : use the Image Adjustment controls to alter the picture to the desired setting.                                             |
| Picture bounces or a wave pattern is present in the picture           | There are no electrical devices that may be causing electrical interference.                                                                              |
| Characters cannot be seen clearly. The image is too light or too dark | The BRIGHTNESS and CONTRAST are set correctly.                                                                                                            |

Should the problem persist contact an authorized dealer - do not attempt to service the monitor yourself.

### DANGER

Serious shock hazards exist inside this display. DO NOT remove covers under any circumstances.  
Contact only to a properly grounded electrical outlet.

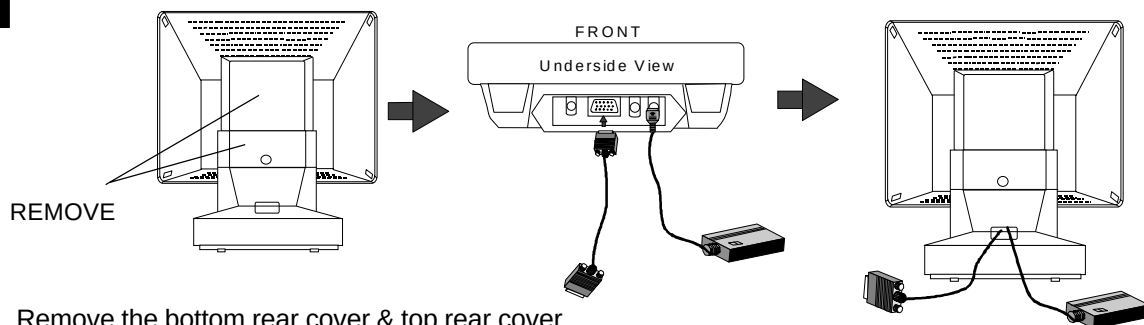
## FEATURES

This high-resolution color display has been designed to be compatible with many standard graphics formats, including Video Graphics Array (VGA), Super VGA (SVGA) and Extended VGA (XGA). The key features are:

- 18.1" Viewable LCD color display with resolutions up to 1280 X 1024 pixels
- Digital controls and easy-to-use on screen display (OSD) adjustment interface
- Comprehensive color management controls
- Support for graphics cards with VESA-compatible DDC1/2B(Display Data Channel) interface for display-to-PC communications
- Hard power on/off switch and support to VESA-compatible 4-stage power management systems

## INSTALLATION

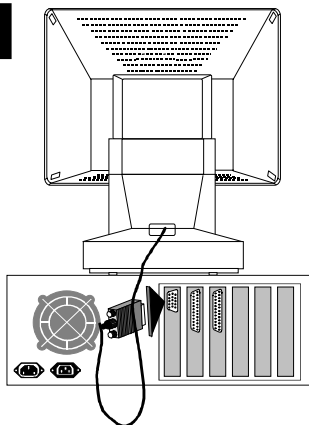
A



Remove the bottom rear cover & top rear cover.

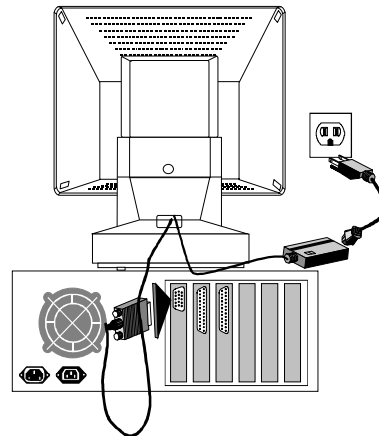
➔ Input the Video Cable & DC Adapter.

B

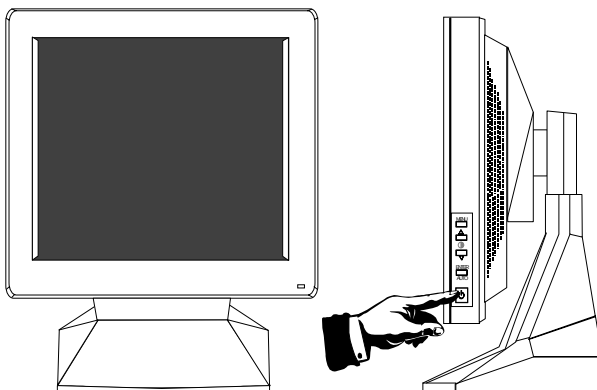


Connecting the signal cable

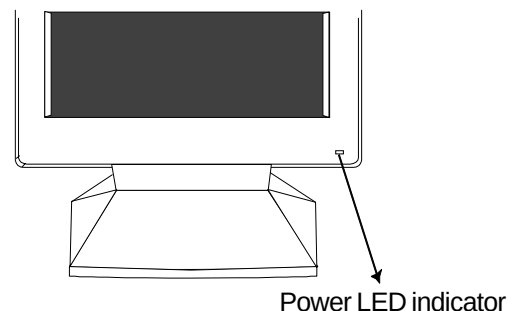
C



Connecting the power cable



Turning the power on



Power LED indicator

## Process for LCD Monitor Physical Wall Mounting

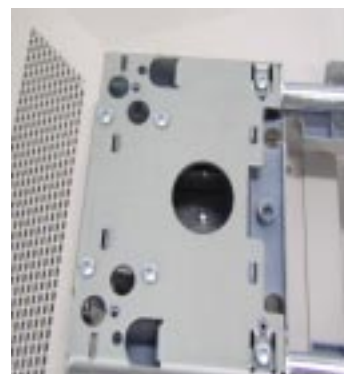
Step1: Loosen Monitor Arm cover screw



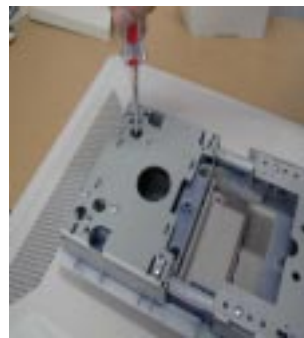
Step2: Remove Monitor Arm cover



Step3: Remove Hinge cover



Step4: Remove Hinge 4 screws as below



## Process for LCD Monitor Physical Wall Mounting

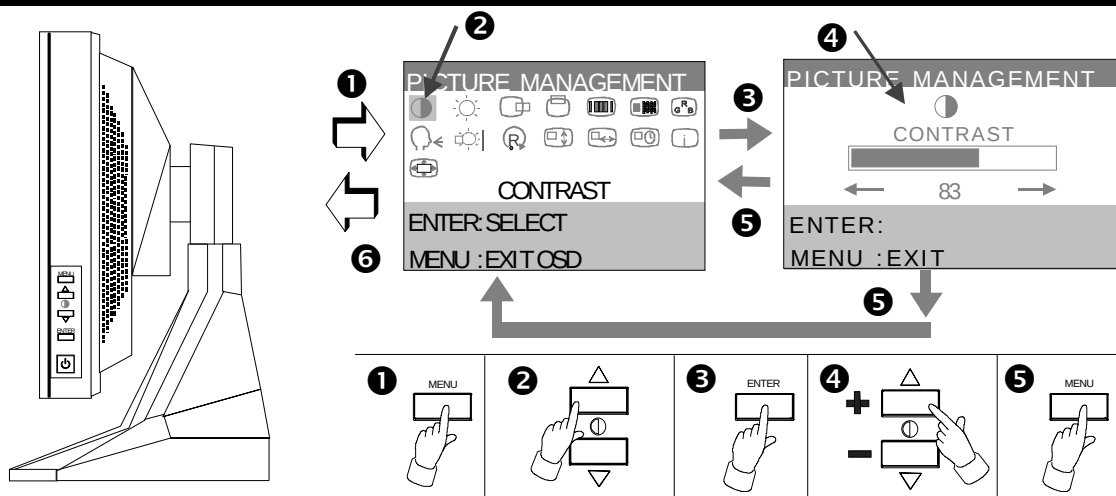


Step5:Dispart Monitor stand

Step6:Fix the Wall Arm with 4 screws



## USING OSD



- ❶ Press the MENU button to bring up the OSD main-menu.
- ❷ Use the ADJUSTMENT buttons to scroll around the icons and menus.
- ❸ Press the ENTER button to activate the sub-menu.
- ❹ Use the ADJUSTMENT buttons to set the selected function.
- ❺ Press the MENU button to return from a sub-menu to the main-menu.
- ❻ Press the MENU button to leave OSD.

Note: If you don't press any button in 5-60 seconds (user selectable), the OSD screen will disappear. All settings are automatically saved upon exiting the OSD.

## OSD CONTROLS



Contrast

This control adjusts the contrast between the background (black level) and the foreground (white level) of the screen image.

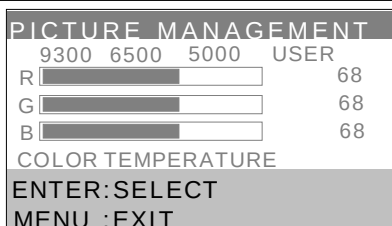


Brightness

This control adjusts the background brightness of the screen image.



Color Management



Scroll to the RGB icon and press the ENTER button to activate the color adjustment sub-menu (see USING OSD). Use the ADJUSTMENT buttons to select a preferred default color temperature. To individually adjust the RGB values, select the USER icon. Use the ENTER button to select the color to be modified. Use the ADJUSTMENT button to change the color strength.



Pitch

This control adjusts the clarity of characters or pictures which are not clear in specific areas of the screen.



Phase

This control adjusts the clarify of characters or pictures which are not clear over the entire surface of the screen. Adjust the phase after adjusting the pitch.



Language

Five OSD Language versions are available for selection-English, French, German, Italian and Spanish. Factory preset is English.



Backlight

This control adjusts the brightness of the backlight.



Recall

This control returns the monitor to factory settings.

# OSD CONTROLS



OSD Position

This function is to adjust the position of the OSD menu.



OSD Time Out

This function is to adjust the OSD show-up time.



Information

This function will show all scanning frequencies, please modes and video resolutions.

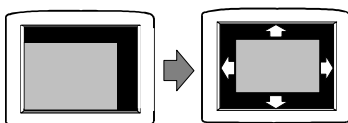
**LOCK/UNLOCK:** To lock the OSD adjustable function, press and hold the MENU key for at least 5 seconds. To unlock, press and hold the MENU key for at least 5 seconds while the OSD function is in the locked position.

**EXCEPTION:** To select a pair of controls CONTRAST/BRIGHTNESS, press ▲ or ▼ around 1sec, then the CONTRAST/BRIGHTNESS sub-menu will appear, use the ▲ and ▼ to adjust. Press ENTER button to select between CONTRAST and BRIGHTNESS.

## OSD CONTROLS (Image Adjustment)

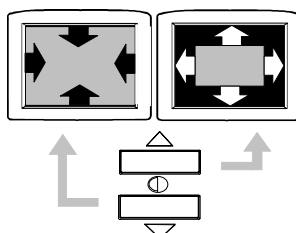
Press the AUTO Button.

The picture is adjusted to fit the center of the screen.

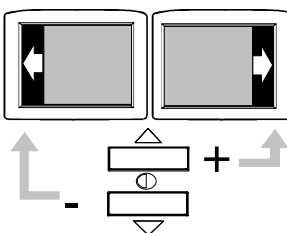


AUTO

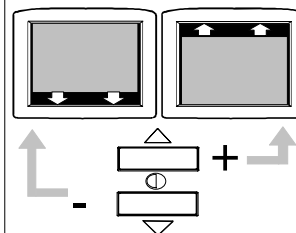
Zoom



Horizontal Position



Vertical Position



# SPECIFICATIONS

|                              |                                                                                    |                                                                                                                                            |                                                                                                 |                       |
|------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------|
| LCD                          | Type                                                                               | 18.1" (full 18.1" viewable diagonal area),<br>TFT (Thin Film Transistor), Active Matrix<br>SXGA, 0.2805mm pixel pitch                      |                                                                                                 |                       |
|                              | Color Filter<br>Glass surface                                                      | RGB vertical stripe<br>Anti-Glare, Hard Coat                                                                                               |                                                                                                 |                       |
| Maximum<br>Viewing<br>Angles | Left                                                                               | 70°                                                                                                                                        |                                                                                                 |                       |
|                              | Right                                                                              | 70°                                                                                                                                        |                                                                                                 |                       |
|                              | Up                                                                                 | 70°                                                                                                                                        |                                                                                                 |                       |
|                              | Down                                                                               | 40°                                                                                                                                        |                                                                                                 |                       |
| Input Signal                 | Video<br>Sync                                                                      | RGB analog (0.7/1.0 Vp-p, 75 ohms)<br>Sync on Green, Composite Sync, Sparate Sync<br>f <sub>h</sub> : 30-80 kHz, f <sub>v</sub> : 50-85 Hz |                                                                                                 |                       |
| Compatibility                | PC<br>Macintosh®*1                                                                 | Up to 1280 x 1024NI<br>Power Macintosh® 1280 x 1024                                                                                        |                                                                                                 |                       |
| Maximum<br>Refresh<br>Rates  |                                                                                    |                                                                                                                                            | 1280 x 1024 NI @ 75 Hz<br>1024 x 768 NI @ 85 Hz<br>800 x 600 NI @ 85 Hz<br>640 x 480 NI @ 85 Hz |                       |
| Power                        | Voltage                                                                            | 90-264 VAC, 47/63 Hz (auto switch)                                                                                                         |                                                                                                 |                       |
| Display Area                 | Full scan                                                                          | 359.0mm (H) x 287.2mm (V)                                                                                                                  |                                                                                                 |                       |
| Operating<br>Conditions      | Temperature                                                                        | 32°F to 104°F (0°C to 40°C)                                                                                                                |                                                                                                 |                       |
|                              | Humidity                                                                           | 5% to 95% (no condensation)                                                                                                                |                                                                                                 |                       |
|                              | Altitude                                                                           | -400 to +3000 meters                                                                                                                       |                                                                                                 |                       |
| Storage<br>Conditions        | Temperature                                                                        | -4°F to 140°F (-20°C to +60°C)                                                                                                             |                                                                                                 |                       |
|                              | Humidity                                                                           | 5% to 95% (no condensation)                                                                                                                |                                                                                                 |                       |
|                              | Altitude                                                                           | -400 to +12000 meters                                                                                                                      |                                                                                                 |                       |
| Dimensions                   | Physical                                                                           | 441mm (W) x 435mm (H) x195mm (D)                                                                                                           |                                                                                                 |                       |
| Weight                       | Net                                                                                | 9kgs                                                                                                                                       |                                                                                                 |                       |
| Regulations                  | UL, FCC-B, ENERGY STAR®, CSA, DOC-B, CE, MPR II, TCO'99<br>TUV/GS, CB, ISO134066-2 |                                                                                                                                            |                                                                                                 |                       |
| Power saving<br>modes        | Stage                                                                              | LED                                                                                                                                        | Function                                                                                        | Power Consumption     |
|                              | On                                                                                 | Green                                                                                                                                      | Normal                                                                                          | 60W(with A/C adaptor) |
|                              | Standby                                                                            | Orange                                                                                                                                     | Blank Screen                                                                                    | Reduced to < 15w      |
|                              | Suspend                                                                            | Orange                                                                                                                                     | Blank Screen                                                                                    | Reduced to < 5w       |
|                              | Off                                                                                | Orange                                                                                                                                     | Blank Screen                                                                                    | Reduced to < 5w       |

